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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/618,795		07/14/2003	Udo-Martin Gomez	10191/3081	10191/3081 7307	
26646	7590	04/18/2006		EXAMINER		
KENYON &		ON LLP	LONEY, DONALD J			
ONE BROA NEW YORK		0004		ART UNIT PAPER NUMBER		
	,			1772		
				DATE MAILED: 04/18/2000	DATE MAILED: 04/18/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/618,795	GOMEZ ET AL.	
Office Action Summary	Examiner	Art Unit	
	Donald Loney	1772	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	correspondence add	ress
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this com D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 27 J	anuary 2006.		
2a)⊠ This action is FINAL . 2b)□ This	s action is non-final.		
3) Since this application is in condition for allowa	nce except for formal matters, pro	secution as to the r	merits is
closed in accordance with the practice under the	Ex parte Quayle, 1935 C.D. 11, 49	53 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) 1 and 3-9 is/are pending in the applic	eation.		
4a) Of the above claim(s) is/are withdra	wn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1 and 3-9</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examine	er.		
10) The drawing(s) filed on is/are: a) acc	epted or b) objected to by the	Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is ob	jected to. See 37 CFF	R 1.121(d).
11) The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTC	D-152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).	
1. Certified copies of the priority document	s have been received.		٠
2. Certified copies of the priority document	s have been received in Applicati	on No	
Copies of the certified copies of the prior	rity documents have been receive	ed in this National S	tage
application from the International Burea	u (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list	of the certified copies not receive	ed.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Do 5) Notice of Informal P		
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	6) Other:	atonic repplication (F1O-	102)

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

1. Claims 1 and 3-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sparks et al (6062461) in view of either Maluf et al or Regan et al (6686642) and the applicant's discussion of the prior art.

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Sparks et al teaches a silicon component 14 vacuum sealed between a substrate 10 and a cap 12. Sparks et al does fail to specifically disclose the substrate as glass. Spark et al does teach that other materials besides silicon could be used (column 3. lines 46-49). Sparks also does not directly teach that the cap and component structure are directly bonded to the glass substrate. Sparks shows a solder 18, 20 used to bond the layers. Anodic bonding techniques between the layers (i.e. direct bonding) have been contemplated in the prior art per column 1, lines 34-41.

Both secondary references teach that the substrate for microstructured components can be either silicon or glass. Refer to column 3, lines 25-31 in Regan et al. Refer to column 5, lines 8-15 in Maluf et al.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to the primary references to form the substrate of glass, as taught by the secondary references motivated by the fact the primary reference discloses that other materials besides silicon can be used and the secondary references disclose that either silicon or glass can be used in a very similar environment. The reference to Regan et al is particularly relevant since it is drawn to a vacuum sealed microstructured component also and teaches that the substrate and/or cap can be either glass or silicon. The examiner has cited the reference to Sparks et al (5831162) since it is referred to in Sparks et al '461 as teaching about the micromachined structure

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14 (column 3, lines 52-59) and discloses the silicon layer and connections per instant claims 3, 4, 7 and 8. Refer to the entire document. Also with regards to claims 6-8, the application discussion of the prior art on page 2, lines 18-30 of the specification the applicant discusses that micro structured components having a silicon on glass layer are known. With regards to the direct bonding of the layers, Sparks discloses it is known in the prior art to directly bond the layers together using anodic bonding techniques between the layers. Refer to column 1, lines 34-41. Therefore, it would be obvious to one of ordinary skill in the art to directly bond the layers using anodic bonding (as recited by the applicant in claims 3 and 5) motivated by the fact the prior art discloses that both techniques are known in the art and this would involve a mere substitution of one bonding technique for another.

Response to Arguments

2. Applicant's arguments filed January 27, 2006 have been fully considered but they are not persuasive. The applicant argues that Sparks does not teach the cap and component layers directly bonded to the glass layer. However, as explained above Sparks does teach that direct anodic bonding is known in the prior art and the examiner has explained why it would be obvious to substitute one bonding technique (i.e. anodic bonding as known in the art) for another (i.e. solder bonding of Sparks) when both are known in used in the art of microstructured component layered construction.

Conclusion

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donald Loney whose telephone number is (571) 272-1493. The examiner can normally be reached on Mon, Tues, Thurs and Fri. 8AM-4PM, flex schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on 571 272-1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Donald Loney Primary Examiner Art Unit 1772

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DJL:D.Loney 04/14/06